Resources for a home biolab





A bio lab in a garage

Garage biotech: Life hackers Amateur hobbyists are creating home-brew molecularbiology labs, but can they ferment a revolution?

Published online 6 October 2010 | Nature 467, 650-652 (2010) | doi:10.1038/467650a



What do I need?

Equipment

- Consumables
- Chemicals
- Knowledge



Lab Equipment



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Open Source Hardware" logo proposed by OSHWA, CC SA 1.0



Consumables

Online shopping:

- www.amazon.com Interface for national online retailers
- www.ebay.com Allows individual sales practices
- www.aliexpress.com Quick and cheap interface to China
- www.alibaba.com (Advanced) Deal with manufacturers
- Specialised online shops; more or less specialised producers and retailers
 top Lab >top

Chemicals - Approaches to get them

Buying them at the local store:

- > Check cross-application of chemicals
- > Check purity grade according to your use
- Online shopping:
 - > Check if the law allows private purchase
- Eventually extract your chemical from mixtures: (know what you are doing, and witah whom)

>top Lab

Mushrooms

For the Mycofabrication session we used Reishi (*Ganoderma Lucidum*)

Online shops:

www.pilzmaennchen.de(Germany - EU)

The forest:

- On the ground
- On dead logs
- On living trees



Substrates

Buy at local stores:

- > Baumarkt (Construction market)
- > Pet shop
- > Carpenter
- Buying them online
 - > Look for application-specific materials



About do-it-yourself mycology Practical resources

Resources:

www.biofabforum.org

EU community sharing protocols and experiences

Facebook group: Fungal Materials & Biofabrication



About do-it-yourself mycology Theoretical resources

Books:

- Mycelium running: how mushrooms can help save the world (2004)
- Radical Mycology: A Treatise on Seeing & working with Fungi (2016)



Academic knowledge Part 1

One of many possible methods:

www.wikipedia.org

Gather basic informations about your research and follow the references that link statements to their sources at the end of the page



Academic knowledge Part 2

How to access academic papers:

- www.scholar.google.com
- http://unpaywall.org/

If behind a paywall:

Ask the author for a copy (professor, not the publisher)

